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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/578,567	05/25/2000	Marilee G. Berry	99PS014/KE	6188
7590	07/12/2006		EXAMINER	
Rockwell Collins Inc Attention Kyle Eppele 400 Collins Rd NE Cedar Rapids, IA 52498				HOYE, MICHAEL W
			ART UNIT	PAPER NUMBER
				2623

DATE MAILED: 07/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/578,567	BERRY, MARILEE G.	
	Examiner	Art Unit	
	Michael W. Hoye	2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 01 May 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-11 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-11 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 16 January 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo et al (USPN 5,666,151), in view of Reed et al (USPN 6,058,288), both previously cited by the Examiner.

As to claim 1, note the Kondo et al reference which discloses a method of indicating program selections in a passenger entertainment system including a seat controller unit receiving programming signals over a plurality of radio frequency (RF) channels and generating display signals from the programming signals, wherein the program selections are made through a passenger control unit. Regarding the claimed retrieving a system configuration having a plurality of variable configuration data points, wherein the plurality of variable configuration data points are selectable from the following: number of media file servers, number of video cassette players, and number of RF channels, Kondo et al discloses that it is possible to easily

change the number of channels for the video signals by changing the compression rate (col. 4, lines 41-44), also, Kondo discloses that the number of analog video signal providers and the number of digital video signal providers may be changed (col. 5, lines 20-25), and in col. 6, lines 36-42, Kondo further discloses that it is accordingly possible to increase the number of [RF] channels easily without any modification of the circuit. However, Kondo et al does not explicitly disclose the claimed “retrieving a system configuration...wherein the plurality of variable configuration data points are selectable...”, as described above. Reed et al teaches retrieving system configuration having a plurality of variable configuration points including media file servers (entertainment servers (“ES”) 24, see col. 5, lines 56-65) and video cassette recorders (video tape recorders (“VTR”) 54, see col. 6, lines 26-55, also see col. 14, lines 37-47; col. 19, lines 21-31; col. 21, lines 57-63; col. 23, lines 21-47 and col. 25, lines 52-63 for additional information related to retrieving system configuration and configuration data points). Therefore, it would have been obvious to one of ordinary skill in the art to have combined the teachings of Kondo et al with Reed et al for the advantage of allowing a user to configure a number of media file servers as well as a number of video cassette players (VCRs) as desired in an aircraft/passenger entertainment system. One of ordinary skill in the art would have been led to make such a modification since it is well known to those of ordinary skill in the art to be able to configure the number of media file servers, VCRs, and RF channels as desired in an interactive video distribution system such as in a cable or satellite TV headend, and/or a passenger/aircraft entertainment system. The claimed step of assigning a program channel to each of the program selections available to the passenger is met by the video signals a1, a2, etc., as shown in Figs. 1 and 2, which are similar or equivalent to television channels each having 6

MHz bandwidth (see col. 4, lines 5-44). The claimed allocating one of the RF channels to carry programming signals corresponding to more than one program channel is met in Kondo et al by digitally compressing 4 to 6 channels (i.e. a1 to a4 or a1 to a6) according to MPEG standards, supplying the signals or channels to a time-division multiplexer 31, which provides a digital signal or channel b1 of 6 Mbps to the RF modulator 32, as shown in Fig. 2, for example, where the RF modulator provides an RF signal or channel c1 which includes the 4 or 6 channels of digital video a1 to a4, or a1 to a6 (see col. 4, lines 5-44 and Figs. 1-2 and 5, also see col. 4, line 61 – col. 6, line 67). The claimed transmitting the program channel assignment information to the seat controller unit is met by the Reed et al reference as combined and as previously described in the sections above. The claimed displaying on the passenger control unit the program channel corresponding to a program selection carried on an RF channel, and displaying on the passenger control unit the program channel corresponding to another program selection in response to a change in the program selection using the passenger control unit is met in part by Kondo et al wherein a passenger may select a channel through the seat control unit (see 16A and 33A in Fig. 1), and a liquid crystal monitor 28A displays the video for the selected channel (see col. 5, line 26 – col. 6, line 30). More specifically, the Reed et al reference as combined with Kondo above, specifically teaches that the passenger control unit (PCU 16) includes a channel number display and the video display unit (VDU 14) may display the program as well as on screen text such as channel control (see col. 18, lines 21-50).

As to claim 2, the Kondo et al reference discloses the step of displaying the display signals of the programming signals corresponding to the program selection as described above in claim 1, as well as in col. 5, line 26 – col. 6, line 30.

As to claim 3, the Kondo et al reference does not explicitly disclose the claimed program selection is changed using up/down channel selection buttons on the passenger control unit and wherein a program channel that is next in sequence to the program channel corresponding to a current program selection is displayed on the passenger control unit in response to an up channel selection and a program channel that is previous in sequence to the program channel corresponding to the current program selection is displayed on the passenger control unit in response to a down channel selection. However, although up/down channel selection buttons on the passenger control unit are not explicitly disclosed in the Kondo et al reference as described above, channel selection buttons are well known in the art of aircraft or passenger entertainment systems. The Reed et al reference as combined with Kondo et al above specifically teaches a channel number display and a channel up/down control (see PCU 16 in Figs. 1-2), where a program selection is changed using up/down channel selection buttons on the passenger control unit as shown by the passenger control unit (PCU 16) as previously described above in claim 1, and the claimed displaying a program channel that is next in sequence to a current program selection in response to an up channel selection and displaying a program channel that is previous in sequence to a current program selection in response to a down channel selection is inherent to up/down channel selection buttons. Therefore, it would have been obvious to one of ordinary skill in the art to have further combined the audio/video signal providing apparatus and methods of Kondo et al with the additional teachings of the Reed et al reference for the advantage of providing a passenger with an easy to use channel selection interface comprising up/down channel selection buttons.

As to claim 4, the Kondo et al reference discloses the claimed method wherein the allocated one of the RF channels carries a plurality of data streams, each carrying programming signals corresponding to a different one of said more than one program channel as met by the RF modulated signals or channels (i.e. c1 to c21), which have carrier frequencies of f1 to f21 for example, where each RF channel carries a 4 or 6 data streams that correspond to a different program or video channel (see col. 4, line 5 – col. 5, line 42).

As to claim 5, the claimed allocating a first plurality of RF channels to carry programming signals from a first device generating NTSC video streams based on the configuration data; and allocating a second plurality of RF channels to carry programming signals from a second device generating MPEG video streams based on the system configuration is met by the sections of the Kondo et al reference as described above, where the claimed first plurality of RF channels... is met by configuring the system for multiple analog video signal providers 11 which each have a bandwidth of 6 MHz that is equal to a typical TV channel and it is well known that a typical analog TV signal in the United States is in NTSC format, and the claimed second plurality of RF channels... is met by configuring the remainder of the system for multiple digital signal providers 10A, 10B, and so on, where the total number of signal providers is 21 and the digital signal providers, carry video signals compressed by MPEG standards (see col. 6, lines 30-51 and the additional sections and Figures cited above).

As to claim 6, the claimed each of the first plurality of RF channels carries a single NTSC video stream and each of the second plurality of RF channels carries multiple MPEG video streams is met by the Kondo et al reference as described above in claim 5.

As to claim 7, the claimed step of allocating one of the second plurality of RF channels to carry multiple MPEG video streams corresponding to one program channel is also met by the Kondo et al reference as described above in claim 5.

As to claims 8 and 9, the Kondo et al reference and the Reed et al reference do not explicitly disclose a method wherein said one program channel corresponds to a near video-on-demand channel. However, the Examiner takes Official Notice that it is notoriously well known in the art of video distribution systems to incorporate the use of video-on-demand (VOD) systems, or more specifically, near video-on-demand systems for the advantages of providing programming to users on time frame that is more convenient to the user and not just during a single scheduled time, in addition to, a near VOD system requires less equipment and storage capacity as a VOD system since a near VOD system only plays programs at, for example, 15 minute intervals, whereas, a VOD system must be able to transmit a program to various users as any given time which requires much greater system capacity. Furthermore, near VOD systems are well known and used in the headend of video distribution systems. Therefore, it is submitted that it would have been clearly obvious to one of ordinary skill in the art at the time of the invention to incorporate the method of a near VOD program channel for the advantages given above. Moreover, pertaining to claim 9, it is also well known in the art to transmit multiple MPEG video streams over a RF channel at different start times for a near VOD program channel.

As to claims 10 and 11, the claimed method wherein said one program channel corresponds to a video-on-demand program channel is not explicitly disclosed by the Kondo et al reference. However, the Reed et al reference, as combined with Kondo et al, specifically teaches the use of a video-on-demand program channel as described above in claim 1 (see col. 23, lines

21-47 and col. 25, lines 52-63). Moreover, pertaining to claim 11, it is also well known in the art to transmit multiple MPEG video streams over a RF channel at different start times for a VOD program channel.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Frisco et al (USPN 6,748,597) – Discloses an upgradable aircraft in-flight entertainment system and associated upgrading methods.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael W. Hoye whose telephone number is **571-272-7346**. The examiner can normally be reached on Monday to Friday from 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller, can be reached at **571-272-7353**.

Any response to this action should be mailed to:

Please address mail to be delivered by the United States Postal Service (USPS) as follows:

Mail Stop _____
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P.O. Box 1450
Alexandria, VA 22313-1450

Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, etc.) as follows:

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to customer service whose telephone number is **571-272-2600**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

Michael W. Hoye
June 30, 2006



JOHN MILLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600